r and Final Bill

M. A. R. 57 (Rule 116)

Measurement Book

No. B 424640

Reference to last measurement 8

rial No. Drilling & borewells, providing pump motor and commission at

me of Work Kuvempunagara area in Ward No. 11 (Kuvempunagara), From ..... To .....

me of Contractor of nature of Agency Executive Engineer, KRIDL

te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
0,000/-	Work Order:	BBMP/EE/BTP/WO/95/2018-19				D: 31.08.2018.	
	Job code:	011-18-000051					
Bills	Estimated cost:	Rs. 20.00 Lakhs P-3293					
		Date & Recording:					
1)	Geophysical investigation & site for sinking borewell for supplying drinking water to the habitation either through the hand pump MWS & PWSS by vertical electrical sounding by adopting resner or schlumbergers method including reconnaissance survey & geological formation geophysical investigation & electrical ground						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	water in the vicinity in quality and acceptability of the users including the location of site recommended depth of casing pipe required to seal the top unconsolidated formation including extra depth of 1.0 m in consolidated formation for proper canister of casing pipe etc complete as per specification.	1	-	-	-	1 NO	
				@Rs. 1882.00		NO	1882.00
2)	Sinking of borewell of 165 mm dia clear using DTH hydraulic rig of capacity 250 PSI and above CFM and above in all strata including over burden upto 20 m fixing of casing pipes collars, and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles crew charges and cost of consumables etc complete including yield testing at the final depth with a minimum capacity of compressor						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424641

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
e of commencement of work .....

Reference to last Measurement 8	te	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		for one hour (excluding cost & carting pipes, collars and cap etc complete as per specification						
22.00		Ch: 0.00 to 50.00 m	1	50.00	-	-	50.00 m	15759.00
					@Rs. 315.18/m			
		Ch 51.00 to 100.00 m	1	50.00	-	-	50.00 m	20600.00
					@Rs. 412.00/m			
		Ch: 101.00 to 150.00 m	1	50.00	-	-	50.00 m	22918.00
					@Rs. 458.35/m			

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Ch: 151.00 to 200.00 m	1	50.00	-	-	50.00 m	
				@Rs. 484.10/m			24205.00
	Ch: 201.00 to 250.00 m	1	50.00	-	-	50.00 m	
				@Rs. 560.32/m			28016.00
	Ch: 251.00 to 300.00 m	1	50.00	-	-	50.00 m	
				@Rs. 600.49/m			30025.00
3)	Supply of ISI mark 145 mm nominal bore medium class E.R.W cally pipe of 5 mm thick electric resistance continuous welded mild steel tube material conforming to IS 1387 1993 and manufactured from hot rolled steel steelp/strips in random length of 4 to 7 m both ends threaded conforming						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424642

Reference to last Measurement 8

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

te	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
205-00	to IS 554/1985 one end fixed with a socket and the other end with a plastic protection end (including all taxes) etc complete as per specification.						
0lb-00		11	6.00	-	-	66.00 m	
1025-00			5.00	-	-	5.00 m	
						71.00 m	
				Only limited to		70.00 m	
				Rs. 1325.00/m			92750.00

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
4)	providing 250 mm dia PVC pipe blow/cm ess per specification & engineer incharge & work	3	6.00	-	-	18.00 m	19800=00
				@Rs. 1100.00/m			
5)	providing and fixing 160 mm borewell cap etc complete as per specification	1	-	-	-	1 NO	100=00
				@Rs. 100.00 1 NO			
b)	Supply and delivery at site of and mild steel tubular / manual / submersible / colapsible / water resistable for vertical installation in 150 mm dia borewell comprising of simple steel						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424643

eference to last asuremen 8

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	or multistage CF pump close coupled to suitable HP suitable speed totally enclosed and filled with pure drinking water (wellpipe) squirrel cage submersible induction motor suitable for operation of 3ph 50 Hz 380/440 volt AC supply filled with required accessories such as suction etc complete as per specification 12.5HP 25 stage	1	-	-	-	1 NO	
				Ch. 60400=00 Lmo			60400=00
7)	providing and fixing in trenches galvanised mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately)						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	including cost of all materials labour charges tools & equipments and testing the complete as per specification						
		43	6.00	-	-	258.00 m	
		1	4.00	-	-	4.00 m	
						262.00 m	
				only limited to		260.00 m	
				@ Rs. 457.82/m			119059.00
8)	Supplying and drawing 3 core flat pvc sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS: 8130-1984 and high grade pvc insulation and powder coating extruded pvc sheathed suitable for						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424644

Reference to last Measurement 8

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	working valleys upto 1100 with as per specification	2 x 2	30.00	-	-	540.00	
		2	10.00	-	-	20.00	
						560.00 Rm	
059=00					Qty limited to	540.00 Rm	68418=00
					@ Rs. 126.20 Rm		
8)	Labour charges for erection as new/repaired submersible pumpset alongwith 2½ Pipe (32/50 mm) cable (new submersible pumpset if required will be supplied by the department free of cost and						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	released pumpset should be handed over to department incharge transportation (each lot to be 6.00 m)	1	45	-	-	45 NO	3960.00
				Rs. 88.00 / NO			
10)	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick planks on both sides with planks made out of not more than 2 pieces and fixing the same to the wall with tapered inverted wooden plugs screws etc complete as per specification	1	-	-	-	1 NO	302.00
				Rs. 302.00 / NO			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424645

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Reference to last leasuremen 8	ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
50:00	11)	Supplying & 1.1 kV 2Tus cable having aluminium conductor pvc insulated extruded inner sheathed, galvanized steel strip (except 2C x 10 sq. mm wire armoured) conforming to IS - 3975 - 1990 (No. & strips indicated in S.P) and extruded pvc outer sheathed armoured cable with special Group-A &c complete as per specification.	1	30.00			30.00 m	4212:00
					@ Rs. 140.40/m			
2:00	12)	Labour charges for laying & 1.1 kV class UG cable in existing trench & pipe / along wall pipe / on wall / on pole as required in existing trenches &c complete as per specification.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	-	-	30.00 m	
				@Rs. 10.80/m			324.00
13)	Digging of trench of 0.60 m deep x 0.50 m wide refilling the trench to the required ground level and consolidating etc complete as per specification						
		1	25.00	-	-	25.00 m	
				@Rs. 85.00/m			2125.00
14)	Supplying and fixing of class-A (heating duty) GI pipe of wall thickness not less than 3.25 mm on pole/wall drain crossing with necessary clamping arrangement for UG cable of 1.1 kV etc complete as per specification						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424646

Reference to last Measurement 8

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

ate	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	4.00	-	-	4.00 m	
						CR. 345.00/m	1380.00
	15) Supplying and fixing LT cast iron pot heads suitable for 1.1 kV class UG cable filled with necessary bitumen/insulating compound complete with terminal, clamps & lugs, nuts and washers etc necessary complete as per specification	1	-	-	-	1 NO	
						CR. 280.00/NO	280.00
	16) Supplying, fixing, wiring earth electrode for providing complete IC current and other equipments outside meter						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	board with 40mm dia 2.80 mm thick GI pipe 2.50 m long buried in a pit the pit should be filled with equal proportion of salt and charcoal 150 mm all round the pipe to complete depth the connection from the pipe to the cond wire is to be established through GI wire of size as per specification with 12 mm dia bolts, nuts, washers and check nuts on the pipe shall have 16 thro holes of 12.2 m dia the complete as per specification	1	-	-	-	1 NO	
						@Rs. 2727=00/NO	2727=00
17	Supplying and fixing of porcelain fuse channel with cutout on existing wooden panel with necessary nuts. bolts and washers 32 Amps. etc complete as per specification	6	-	-	-	6 Nos	1080=00
						@Rs 180.00/NO	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424647

Reference to last Measurement 8

rial No. .....

me of Work ..... From..... To.....

me of Contractor of nature of Agency .....

e of commencement of work .....

te	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	8) providing and fixing in position 50 mm nominal bore cast metal non-return valve horizontal type of approved make including cost of all materials, labour, hire of equipments etc complete as per specification	1				1 NO	
127=00				Sch. 1585.76/NO			1586=00
	9) providing NP/CP waste unions conforming to ISI specification and fixing them in position as per direction including cost of materials, fixtures and conveyance to work spot 50 mm dia etc complete as per specification.						
1080=00							

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	-	-	-	1 NO	
						Rs. 227-90/NO	228:00
20)	Supplying and fixing 50 mm dia GI x nipple with ISI mone with all lead and lift locally and locally and labour charges et complete as per specification.						
		4	-	-	-	4 NOs	
						Rs. 104-30/NO	417:00
21)	Supplying and fixing miniature circuit breakers on existing MCB distribution boards with necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity 9 10K and complete wiring as Required confirming et 32 Amps et complete as per specification						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424648

al No. .....

ne of Work ..... From..... To.....

ne of Contractor of nature of Agency .....

e of commencement of work .....

Reference to last Measurement 8	e	Full description, etc. of work 2	Dimensions				Contents 7	Reference to last Measurement 8
			Number 3	Length 4	Breadth 5	Depth 6		
28:00		CAT Mohan AEE (VRP) SD	1	-	-	-	1 NO	
					@Rs. 1547=00/NO			1547=00
417=00	2)	Fabrication supplying and mounting MS box made out of suitable for floor/wall mounting full weather proof with front cover equipped with tamper proof locking arrangement with suitable size clamps with necessary cable entry pipes with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc complete as per specification						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	168 sq	1 x 2	120.00	60.00	-	14400=00	
		1	360.00	25.00	-	9000=00	
						23400=00 Sq.m	
							7722=00
				@Rs. 0.33/Sq.m			
23)	Supplying fully automatic Star delta starter unit push button type with suitable wires three conductors one copper terminal fixed mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the wooden board for motor upto 12.00 HP ea complete as per specification						
		1	-	-		1 No	
				@Rs. 6583.00/No			6583=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

424649

Reference to last Measurement 8

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
e of commencement of work .....

te	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	4) Earth work excavation for pipeline trenches including depositing on bank up to a lead of 50 mtrs including shoring and strutting danger lighting and using kite rails and boning poles at every 100m wherever necessary as direction in the following structure manhole etc complete as per specification.						
	Qty as per premeasurement Recorded vide page No: 424681 to 83 of this MB is					1687.50 cum	
722=00	@Rs. 188.00 cum						317250=00
5583=00	5) providing and installation at site of works PVC pipes including cost of pipes and specials and including lowering into trenches						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Laying true to line, level and perfect fitting cut joint leak proof including jointing excavating the pipe aground to a depth not less than 15 cm with gravel or selected earth available from the excavation etc complete as per Specification						
		3	30.00	-	-	90.00	
		1	28.00	-	-	28.00	
		2	30.00	-	-	30.00	
		1	25.00	-	-	25.00	
		5	30.00	-	-	150.00	
		1	15.00	-	-	15.00	
		4	30.00	-	-	120.00	
		1	28.00	-	-	28.00	
		2	30.00	-	-	60.00	
		1	25.00	-	-	25.00	
		2	30.00	-	-	60.00	
		1	26.00	-	-	26.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

424650

rial No. .....

me of Work ..... From..... To.....

me of Contractor of nature of Agency .....

e of commencement of work .....

te	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		4	30.00	-	-	120.00	
		1	29.00	-	-	29.00	
		4	30.00	-	-	120.00	
		1	18.00	-	-	18.00	
		2	30.00	-	-	60.00	
		1	22.00	-	-	22.00	
		2	30.00	-	-	60.00	
		1	26.00	-	-	26.00	
		3	30.00	-	-	90.00	
		1	27.00	-	-	27.00	
		2	30.00	-	-	60.00	
		1	19.00	-	-	19.00	
		2	30.00	-	-	60.00	

Reference to last Measureme 8

914

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	22.00	-	-	22.00	
		3	30.00	-	-	90.00	
		1	23.00	-	-	23.00	
		4	30.00	-	-	120.00	
		1	19.00	-	-	19.00	
		3	30.00	-	-	80.00	
		1	16.00	-	-	16.00	
		2	30.00	-	-	60.00	
		1	20.00	-	-	20.00	
		4	30.00	-	-	120.00	
		1	19.00	-	-	19.00	
		3	30.00	-	-	90.00	
		1	17.00	-	-	17.00	
		2	30.00	-	-	60.00	
		1	14.00	-	-	14.00	
		2	30.00	-	-	60.00	
		1	19.00	-	-	19.00	
		4	30.00	-	-	120.00	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424651

Reference to last Measurement 8

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	24.00	-	-	24.00	
		4	30.00	-	-	120.00	
		1	27.00	-	-	27.00	
		2	30.00	-	-	60.00	
		1	23.00	-	-	23.00	
		1	14.00	-	-	14.00	
		2	30.00	-	-	60.00	
		1	22.00	-	-	22.00	
		3	30.00	-	-	90.00	
		1	24.00	-	-	24.00	
		3	30.00	-	-	90.00	
		1	27.00	-	-	27.00	
		1	30.00	-	-	30.00	
		1	18.00	-	-	18.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						3006.00 m	
				Qty limited to		3000.00 m	
				Rate 157.00/m			471000=00
26)	Refilling the basement and pipeline trenches with selected excavation including authority excavation in layers from the including disposal of the surplus earth with a heavy 200 m etc complete as per specification						
				Qty vide item No. (24) is		1687.50 m³	
				Rate 61.00/m³			102938=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

424652

Final No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
97	Providing laying spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specification including premixing the material with water at site in mechanical mix plant carriage & mixed method & upper to site laying in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achive the desired density as complete as per specification.						
	Qty as per premeasurement Recorded vide page no 422683 to 84 & this msp					151.32 m³	
					CR. 1768.08 m³		267546=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
28/	providing and fixing in position brass gate valve with CI wheel of approved quality (screwed end) 65mm nominal bore including cost of all materials, labours and HOM of equipments with all leads etc complete as per specification	05 08 07 09 06 05 03	-	-	-	05 08 07 09 06 05 03 43 Nos 35 Nos Rs 2729.50/Nos	95533.00

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Adj worked to

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424653

Reference to last Measurement 8

ial No. .....

ne of Work ..... From..... To.....

ne of Contractor of nature of Agency .....

e of commencement of work .....

e	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Verified 6/05 BESCOM	Deposit charges		Sub total KRIDL @ 1% Labour cess @ 1% Total			1792672=00 17926=00 17927=00 10,000=00 19,98,866=00
	certificate: Certified that the above work done is satisfactory.						15/11/18

AEE (VRP) SD 5/11

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1		3	4	5	6	7	8
	Ist & Final						

ಲೆಕ್ಕಪೀರ್ಷಿಕೆ P-3293 ರಡಿ
ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 1999800-00 ಗಳನ್ನು ಹೊಸು ಮಾಡಿದೆ.
ಇದರಲ್ಲಿ ರೂ. 207706-00 ಗಳನ್ನು ಹೊಂದಾಣಿಕೆ
ಮಾಡಿಕೊಂಡು ರೂ. 1792094-00 ಗಳನ್ನು

FT/NEFT/RTGS ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ವಿಷಯ ನಿರ್ವಾಹಕರು ಬ್ಯಾಡರಾಯನಪುರ ವಿಭಾಗ ಬೃ.ಬೆ.ಮ.ಪಾ, ಬೆಂಗಳೂರು

ಲೆಕ್ಕಪೀರ್ಷಿಕೆದಾರರು

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಬ್ಯಾಡರಾಯನಪುರ ವಿಭಾಗ ಬೃ.ಬೆ.ಮ.ಪಾ, ಬೆಂಗಳೂರು

1999800-00
FSD - 100000-00
IT - 89996-00
LC - 19998-00
CBF - 2000-00
CGST - 17856-00
SGST - 17856-00
Royalty - 8000-00
Fine - 2000-00
T.D 207706-00
Net A:- 1792094-00